

LEGOSTEV, B.I.; KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.

Significance of the nitro group in the development of pharmacological effects of certain arylamides in substituted aminoacetic acids.
Farm.i toks. 24 no.1:40-44 Ja-F '61. (MIRA 14:5)

1. Kafedra farmakologii (zav. - doktor meditsinskikh nauk A.V. Val'dman) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova.
(GLYCINE) (AMIDES)

LEGOSTEV, N.I.

124-1957-1-148 D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 16 (USSR)

AUTHOR: Legostev, N. I.

TITLE: Some Problems on the Stability of the Non-Stationary Motions
of a Controlled Aircraft (Nekotoryye zadachi ustoychivosti
neustanovivshikhsya dvizheniy upravlyayemogo samoleta)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree
of Candidate of Physical-Mathematical Sciences presented to the
Leningr. politekhn. in-ta (Leningrad Polytechnic Institute),
Leningrad, 1956.

ASSOCIATION: Leningr. politekhn. in-t (Leningrad Polytechnic Institute),
Leningrad

1. Airplanes--Motion--Theoretical analysis

Card 1/1

LEGOSZ-CWSIANNA, DANUTA.

Chrzaszczę drobnych zbiorników wodnych okolic Poznania. Poznań,
Państwowe Wydawn. Naukowe, 1955. 49 p. (Poznanskie Towarzystwo
Przyjaciół Nauk. Konisja Biologiczna Prace, t. 16, zesz. 2)
/Beetles of small water reservoirs of the Poznań environs. German
and Russian summaries. 1st ed. map, bibl. Zygmunt Szyfter:
Researches on the occurrence of larvae of Elateridae (Coleoptera)
in Flewiska. English and Russian Summaries. Bibl., footnotes./

So. East European Accessions List. Vol. 5, no. 1, Jan. 1956.

LEGOTIN, A.M., inzhener.

Milling machine attachment for repairing parquet friezes. Der.
prem. 5 no.6:21 Je '56. (MIRA 9:9)

1.Shumerlinskiy mebel'nyy kombinat.
(Lathes-Attachments)

LEGOTIN, A.M., inzhener.

Semiautomatic line for finishing parquet strips. Der.prom. 5
no.11:21-22 N '56. (MIRA 10:3)

1. Shumerlinskiy mebel'nyy kombinat.
(Parquetry) (Woodworking machinery)

LEGOTIN, A.M., inzhener.

Efficient techniques for the manufacture of octahedral dinner table
legs. Der.prom. 6 no.1:19 Ja '57. (MLRA 10:2)

1. Shumerlinskiy mebel'nyy kombinat.
(Tables)

FILANOVSKIJ, G.; LEGOTIN, J.; RUSAKOV, P.

On instruction installations. Letecky obzor 7 no.3:72-75 Mr '63.

1. Instruktor cvicneho zarizeni Vychodosibirske spravy (for Filanovskij).
2. Instruktor cvicneho zarizeni Svk (for Legotin). 3. Inspektor sluzby zarizeni leteckeho provozu, Glavnoye upravleniye Grazhdanskogo vozdušnogo flota (for Rusakov).

SOV/84-58-11-57/58

AUTHOR: Legostin, V.
TITLE: An Interesting Flight (Eto byl interesnyy perelet)
PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 11, p 40 (USSR)
ABSTRACT: The author refers to a flight made 20 years ago
(September 1938) on a PS-89 by a group of Komsomol pilots of
the Moscow Territorial Administration in celebration of the
20th anniversary of the VLKSM.

Card 1/1

LEGOSTUP, O.I.

Conference on the problems of theory and practice of oxygen converter process. Izv. AN SSSR. Met. no.3:192 My-Je '65. (MIRA 18:7)

LECOTIN, B. V.

Legotin, B. V.

"The Content, Form, and Methods of Organization of Mass Work on Technology in the Pioneer Groups of the Sixth and Seventh Classes." Academy of Pedagogical Sciences RSFSR. Sci Res Inst of the Theory and History of Pedagogy. Moscow, 1955. (Dissertation for the Degree of Candidate in Pedagogical Sciences)

So: Knizhnaya letopis', No. 27, 2 July 1955

LEGOTIN, YA.

85-58-1-16/28

AUTHOR: Legotin, Ya., Flight Instructor, Ivanovskiy Aeroclub
TITLE: Instructor's Tribune (Tribuna instruktora); Training
Cadets in Calculation and Landing (Obucheniye kursantov
raschetu i pozadke)

PERIODICAL: Kryn'ya rodiny, 1958, Nr 1, pp 18-20 (USSR)

ABSTRACT: The author describes in detail his method of instructing
cadets in techniques of accurately estimating flight and
landing. He discusses errors made by individual trainees
and gives suggestions to correct them. There are 6
diagrams.

ASSOCIATION: Ivanovskiy Aeroclub

AVAILABLE: Library of Congress

Card 1/1

LEGOTIN, Ya.

Sceptics still remain; discomfiture of pilot Pavlov; lessons of practice; our suggestions. Grazhd.av. 19 no.12:19-20 D '62.
(MIRA 16:2)

1. Instruktor trenazhera Syktyvkarskoy otdel'noy aviagruppy.
(Link trainers)

DUBROVSKIY, V.A.; ANDREGA, P.N.; LEGOTINA, R.I.; KAMTSEVA, L.A.

Effect of accelerators on glass polishing. Stek.1 ker. 12 no.12:
16-18 D '55.
(MLRA 9:3)

1. Ukrainskiy filial Instituta stekla.
(Plate glass)

27070
S/080/61/034/003/012/017
A057/A129

15.9203

AUTHORS:

Legotski, M., Markovich, M., Penchek, I., Penchek, S.

TITLE:

Synthesis and polymerization of 3,3'-bis (chloromethyl)oxacyclo-
butane

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 3, 1961, 640 - 644

TEXT:

In order to develop the most efficient conditions for the synthesis of the monomer 3,3'-bis(chloromethyl) oxacyclobutane and for its polymerization, it was shown that by polymerization in liquid sulfur dioxide a high-molecular polymer ($[\eta] > 1.2$) is obtained even at -10°C (boiling point of SO_2) when BF_3 is used as catalyst. The polymer can be easily purified, contrary to products obtained in organic solvents. The monomer was synthesized by a procedure described also by R. W. Cairnes and V. R. Grassie (Ref. 2: Ind. des Plast. Mod., 11, 9, 26, 1959) as follows: Pentaerythrite tetraacetate was first synthesized by Orthner's method (Ref. 7: Ann. 484, 131 - 154, 1930) using acetic anhydride, or by a method developed by the present authors using acetic acid and pentaerythrite in presence of a cation exchange resin (3 weight %, MK_3 (MK_3) type). The obtained tetraacetate was then converted to the monoacetate of pentaerythrite trichloro-

Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

Synthesis and polymerization of

27070
S/080/61/034/003/012/017
A057/A129

hydride by adding 3 weight % of AlCl_3 (or ZnCl_2) and passing gaseous HCl at a temperature of 195°C . After rectification the product was used to synthesize pentaerythrite trichlorohydride by mixing with ethanol and β -toluene sulfonic acid, boiling and subsequent distillation. The residue, i.e., trichlorohydride, was then converted to the monomer 3,3'-bis(chloromethyl)oxacyclobutane with NaOH (or KOH) by methods described by M.M. Koton et al. (Ref. 1: ZhPKh, 33, 1, 182, 1960). Some details concerning synthesis of the monomer were already given by the present authors at the Annual Scientific Conference on Polymers of the Polish Academy of Sciences in Lodz in 1959 (Ref. 3: Tworzywa-Guma-Lakiery, 5, 69, 1960). Immediately before polymerization experiments in a laboratory assembly, the monomer was vacuum-distilled (0.1 torr, $32 - 33^{\circ}\text{C}$) and a product obtained with a refraction index of $n_D^{20} 1.48582 - 1.48588$. Gaseous BF_3 was produced by evaporation of an anisole complex and it was introduced into the monomer which was dissolved in liquid SO_2 (thoroughly dried before use) using nitrogen gas as carrier. The general mechanism in the change of the molecular weight of the polymer during polycondensation in liquid SO_2 corresponds (see Table) to values obtained by J. Rose (Ref. 4: J. Chem. Soc., 542 (1956), A. Farthing (Ref. 5: J. Chem. Soc., 3648, 1955) and M. M. Koton et al. (Ref. 1). The obtained product is a loose

Card 2/3

ZHOMOV, Yu. (UA3FG); LEGOTSKIY, L. (UW3XX); VARAKSIN, A. (GP372);
GROZNYI, V. (UQ2CS)

Short radio waves. Radio no.9:12-13 S '64.

(MIRA 17:12)

LEGOTSKIY, L. (UW3XY) (Kaluga)

Methods for teaching transmission using an electronic key. Radio
no.10:11-12 0 '64. (MIRA 18:2)

BODNIKEVICH, S.I., inzh.; LEGOV, P.R., red.; MAKRIDOV, Ye.V., red.;
MODLIN, G.D., tekhn.red.

[Supplying electric power to the construction site of the
Stalingrad Hydroelectric Power Station] Iz opyta elektroosnabzheniia
stroitel'stva Stalingradskoi GES. Kuibyshev, Orgenergostroi, 1958.
12 p. (MIRA 12:2)

(Stalingrad Hydroelectric Power Station)
(Electric substations)

YEMBAYEV, M.F., inzh.; IYEVLEV, A.M., inzh.; LEGOV, P.R., inzh.;
RAZD'YAKONOV, V.K., inzh.; SOSKIND, A.M., inzh.; DYRDOVA,
Z.G., red.; MODLIN, G.D., tekhn.red.

[Electric transmission lines and substations for 400 kv. systems;
materials of the Scientific Conference on the Generalization of
Experience in the Design, Manufacture, Erection, and Operation of
Electric Transmission Lines and Substations] Linii elektropredachi
i podstantsii 400 kv; materialy Nauchno-tekhnicheskogo soveshchaniia
po obobshcheniiu opyta proektirovaniia, stroitel'stva, montazha i
ekspluatatsii linii elektropredachi i podstantsii. Kuibyshev,
Orgenergostroi, 1959. 187 p. (MIRA 13:6)

1. Nauchno-tekhnicheskoye soveshchaniye po obobshcheniyu opyta
proektirovaniya, stroitel'stva, montazha i ekspluatatsii liniy
elektropredachi i podstantsiy. Kuibyshev, 1958.

(Electric lines)

(Electric substations)

GOL'DFARB, E.M., inzh.; TAYTS, N.Yu., inzh.; LEGOVETS, L.V., inzh.;
SOROKIN, A.A., inzh.; CHECHURO, A.N., inzh.; POLETAYEV, B.L., inzh.;
YAROSHEVSKIY, N.D., inzh.

Increasing the heat capacity of blast furnace air preheaters.

Biul.TSIICHM no.4:9-13 '61.

(MIRA 14:10)

(Blast furnaces)

(Air preheaters)

ZUBENKO, P.M.; LEGOVETS, T.A. [Lehovets', T.O.]

Biochemical changes in a denervated traumatized muscle during the
ingrowth of the nerve. Ukr. biokhim. zhur. 33 nò.1:94-100 '61.
(MIRA 14:3)

1. Department of Biochemistry of the Dnepropetrovsk Medical
Institute.

(MUSCLES---INNERVATION)

(ATROPHY, MUSCULAR)

(WOUNDS)

LEGOVICH, N.A.

Oocystaceae of Lake Sevan. Izv. AN Arm. SSR. Biol. nauki 14
no.11:81-85 N '61. (MIRA 15:3)

1. Sevanskaya gidrobiologicheskaya stantsiya AN Armyanskoy
SSR.

(SEVAN, LAKE--ALGAE)

ACC NR: AP7005657

(A, N)

SOURCE CODE: UR/0413/67/000/002/0114/0114

INVENTOR: Aleksandridi, T. M.; Legovich, Yu. S.

ORG: None

TITLE: A multiplication unit. Class 42, No. 190658 (announced by the Institute of Automation and Telemechanics [Technical Cybernetics] [Institut avtomatiki i teleme-khaniki (tekhnicheskoy kibernetiki)])

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 114

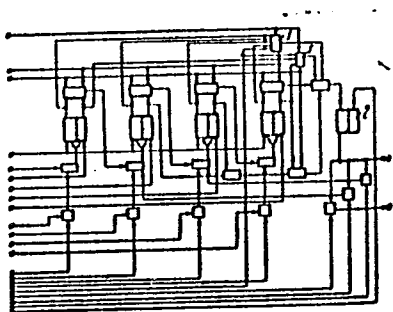
TOPIC TAGS: computer component, arithmetic unit, flip flop circuit

ABSTRACT: This Author's Certificate introduces a multiplication unit of the series-parallel type in which one of the numbers is given in parallel binary-decimal code and the other is given in number-pulse code. The device contains a control unit (e. g. a shift register), storage-carry flip-flops and a reversible binary-decimal counter with logic circuits for addition and correction by digital place. To reduce the end-around carry time, an additional end-around carry circuit is introduced into each decade of the counter. Each of these circuits contains two coincidence gates for conditions of addition and subtraction. These gates are controlled by the carry-storage flip-flop of the preceding decade and by flip-flops in their own decades.

Cord 1/2

UDC: 681.142.07:621.385.831

ACC NR: AP7005657



1—coincidence gates; 2—carry-storage flip-flop

SUB CODE: 09/ SUBM DATE: 19Feb66

Card 2/2

LEGOWSKI, F.

Thermobimetals and thermotrimetals. F. Legowski
(Inst. Metali Niezelaznych, Gliwice, Poland). *Prace Inst.
Ministerstwa Hutnic. 8, 231-6(1956)* (English summary). —
E. shows that there is a possibility of obtaining thermotri-
metals from alloys Fe-Ni (which have a relatively low elec.
resistivity (I_1)) and an intermediate layer which has a very
high elec. cond. E.g., 3 layers of the thermotrimetal were
made from Fe-Ni30, Ni, and Fe-Ni20-MnO; after rolling
these layers together their thickness was 43.5, 13.0, and
43.5%, or 41.5, 17.0, and 14.5%. The thermotrimetals can
be used up to 250°. I of the thermotrimetals can be regu-
lated by varying the thickness of the intermediate layer;
I can be calcd. from the following formula: $100/I = X/I_1 +$
 $Y/I_2 + Z/I_3$, where X, Y, and Z are thicknesses in percentage
of each layer, and I_1 , I_2 , and I_3 are resistivities of each layer.
Thermobimetals and thermotrimetals are very important in
the production of elec. machines. F. J. Hendel

PEB mk

POLAND/Atomic and Molecular Physics - Physics of the Atom

D-1

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27162

Author : Legowski S.

Inst : Institute of Physics, Polish Academy of Sciences, Poland

Title : Interaction Potential Between a Mercury Atom and an Argon Atom.

Orig Pub : Bull. Acad. polon. sci. ser. sci. math., astron. et phys., 1958, 6, No 2, 127-130, IX

Abstract : The author has calculated the Lennard-Jones potential parameters for atoms of hydrogen and argon. The constants that enter the expression for the potential have been determined from literature data for normal 1S_0 and excited 2P_1 states of the mercury atom. The calculated potentials are represented on a graph and compared with the curves of Kuhn.

Card : 1/1

19

POLAND / Physical Chemistry. Molecule. Chemical Bond.

B-4

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 74243.

Author : Baczynski, A., Berdowski, W., Legowski, S.

Inst : Polish Academy of Sciences.

Title : Solution of the Schroedinger Equation for the Van der Waals Potential.

Orig Pub: Bull Acad Polon Sci, Ser Sci Math, Astronom, et Phys, 6, No 2, 119-125, (1958) (in English with a Russian summary).

Abstract: Using an improved magnetic apparatus of their own design, the authors have solved the Schroedinger equation for the Van der Waals potential $V(r) = C_2 r^{-8} - C_1 r^{-6}$ in the case of interactions between argon and mercury atoms. The constant C_1 has been evaluated theoretically previ-

Card 1/2

2

ACC NR: AT6033656

SOURCE CODE: PO/2514/65/000/013/0069/0085

AUTHOR: Zimmermann, Roman; Legowski, Stanisław; Polowczyk, Michał

ORG: Department of Telecommunication Measurements, Gdańsk Polytechnic (Politechnika Gdańska, Katedra Miernictwa Telekomunikacyjnego)

TITLE: The digital tachometer

SOURCE: Danzig. Politechnika. Zeszyty naukowe, no. 66, 1965. Łączność, no. 13, 69-85

TOPIC TAGS: tachometer, digital device, telecommunication

ABSTRACT: Description of an electronic digital tachometer designed by the authors is given. Such a tachometer offers a high accuracy of measurement, yields the results in form of discrete figures, facilitates transmission of the results over a distance, a rapid and easy repetition of the measurements, and records the data on a tape. The tachometer consists of three parts: a sensing element, a gate system, and a counter. The basic component of the gate system is a gate generator. It is keyed by a quartz crystal having oscillation frequency of 125 kc and a temperature coefficient $4 \times 10^{-6}/^{\circ}\text{C}$. The counter, selected on the basis of economical feasibility as well as the need to use domestic products, consists of Philips E1T decades. It is expected that domestically produced total counter decades, having printed circuits and digital indicators, will be introduced shortly. Two types of sensing elements are used, de-

Card 1/1

ACC NR: AT6033656

pending upon the requirements (electromagnetic or photoelectric). The accuracy of the tachometer is 0.5×10^{-3} for rotational velocities above 2000 rotations/min. Orig. art. has: 5 formulas and 13 figures.

SUB CODE: 09, 14/ SUBM DATE: 05Nov64/ ORIG REF: 001/ SOV REF: 002/ OTH REF: 002

Card 2/2

LEGRADI, Imre

Remark on Geza Denkinger's article entitled "Remark on the teaching of the effective value and output of alternating current." Fiz szemle 11 no.9:286 S '61.

1. Sopron, Szechenyi gimnazium.

LEGRADI, Laszlo

4 machines, 3 methods for maize gathering. Mezogazd techn
1 no.1:14-15 '61.

114. New water-soluble sulphur dyes. ¹⁵ L. Légrádi. Magyar Textiltechnika, Vol.10, 1958, No. 6, pp. 233-235, 2 tabs. 2 may

The usual sulphur dyes may be used for colouring in strongly alkaline and reducing medium therefore they are not suitable for the dyeing of wool and polyamide fibres. If sulphur dyes are acted upon by sodium 2-nitro-1-chlorobenzene-4-sulphonate and ethylene chlorohydrine, they become water-soluble and adequate for the colouring of wool and polyamides. These modified colouring agents become insoluble again after absorption on the fibre. The experiments were carried out with the following dyes: Sulphohanil Black TN (made of 2,4-dinitrophenyl sodium), Sulphohanil Olive IK (of p-nitrophenol), Sulphohanil Orange GI (of 2,4-toluene diamine), Sulphohanil Olive GG (of 2,4-toluene diamine and hydroxynitramine), Sulphohanil Brown VN (of dinitronaphthalene), Sulphohanil Yellow G (of 2,4-dinitroacetanilide and phthalic anhydride) and Sulphohanil Brown VV (of 2,4-dinitro-4-hydroxydiphenyl amine). The best fastness values were gained with the water-soluble dyes obtained from the reactions of Sulphohanil Yellow G with 2-nitro-1-chlorobenzene-4-sulphonic acid and 2,4-dinitroacetanilide, and of Sulphohanil Brown VN with ethylenechlorohydrine

[Retyped Clipped Abstract]

Card 1/1

bt

LEGRADI, L.

HUNGARY / Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60645.

Author : Laszlo Legradi, Sandor Fusti-Molnar.

Inst : -

Title : Titrimetric Determination of Sulfate Ion.

Orig Pub: Magyar kem. folyoirat, 1958, 64, No 1, 29-30.

Abstract: A simple and rapid titrimetric method of SO_4^{2-} determination was developed. An excess of BaCl_2 solution (25 ml of 0.02 M solution) and 2 ml of ammonium buffer solution are added to the sulfate solution to be analyzed or to H_2SO_4 (0.03 to 0.04 g of SO_4^{2-}), and the excess of BaCl_2 is titrated

Card 1/2

LEGRADI, Laszlo; BOGNAR, Jozsef

Oxidation of o-nitroethylbenzene with nitric acid.
Magy kem folyoir 66 no.11:460-461 N '60.

1. Veszprem Megyei Festekgyar, Fuzfogyartelep.

LEGRADI, Laszlo

Ion-exchanging resin indicators. Nagy kem folyoir 66 no. 2:76-79
F '60.

1. Veszpremmegyei Festekgyar, Fuzfogyartelep.

FUSTI MOLNAR. Sandor; LEGRADI, Laszlo

Complexometric control of sulfonation reactions. Magyar kémiai folyóirat
67 no.10:455-456 1961.

1. Mendelejev Műszaki Egyetem, Anyag Tudományok Tanszék, Moszkva (for
Fusti Molnar). 2. Medicolor Vegyi Termékek Gyára, Fűzfőgyártelep
(for Legradi).

LEGRADI, Laszlo; FUSTI MOLNAR, Sandor

Complexometric determination of zinc and sulfate ion in the presence of each other. Magyar kémiai folyóirat 67 no.11:490-491 N '61.

1. Medicolor Vegyitermékek Gyára, Fuzfogyartelep.

LEGRADI, Laszlo

Data on the sulfur and sodium-hydroxide reaction. Magyar kem folyoir
68 no.4:161-164 Ap '62

1. Medicolor Vegyitermekeke Gyara, Fuzfogyartelap.

LEGRADI, Laszlo

Determination of methanol and formaldehyde in presence of each other.
Magy kem folyoir '69 no.3:117-120 Mr '63.

1, Medicolor Vegyitermekek Gyara, Fuzfogyartelep.

LEGRADI, Laszlo

/ Kinetic analysis in organic chemistry. Magyar kem folyoir 69 no.3:
120-123 Mr '63.

1. Medicolor Vegyitermek Gyara, Fuzfogyartelep.

L 63938-65

ACCESSION NR: AT5022526

HU/2502/64/042/002/0089/0106

AUTHOR: Legradi, Laszlo (Fuzfogyartelep); Pungor, Erno (Professor, Doctor) (Veszprem); Szabadka, Udon (Sabadka, E.) (Doctor)(Veszprem)

TITLE: Identification of small quantities of formaldehyde and formaldehyde-dimethylacetale in the presence of each other and their colorimetric determination

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 42, no. 2, 1964, 89-106

TOPIC TAGS: formaldehyde, colorimetric analysis

Abstract: [German article] Minute quantities of formaldehyde can be identified by the color reaction of the test solution with m-phenylenediamine dichlorohydrate. Formaldehyde-dimethylacetale can be identified by oxidizing with hydrogen peroxide in an alkaline medium, followed by reaction with phenylhydrazine, resulting in a typical coloration. Means for extending the technique, described in detail, to quantitative determinations of formaldehyde and formaldehyde-dimethylacetale in small quantities and in the presence of each other were discussed. Orig. art. has 8 formulas, 2 graphs, and 3 tables.

Card 1/2

L 63938-65

ACCESSION NR: AT5022526

ASSOCIATION: Legradi--Industriewerke Nitrokemia, Fuzfogyartelep (Nitrokemia Industrial Works); Pungor, Szabadka--Lehrstuhl fur Analytische Chemie der Chemisch-Technischen Universitat, Veszprem (Analytical Chemistry Department, University for Chemical Industry)

SUBMITTED: 12Nov62

ENCL: 00

SUB CODE: 00, GC

NO REF SOV: 000

OTHER: 009

JPRS

dm
Card 2/2

L 63937-65

ACCESSION NR: AT5022527

HU/2502/64/042/002/0107/0118

AUTHOR: Legradi, Iaszlo (Fuzfogyartelep)

TITLE: 4-(2 prime -Ethyl-Phenylazo)-1-naphthylamine hydrochloride, a new adsorption indicator

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 42, no. 2, 1964, 107-118

TOPIC TAGS: amine, chlorine compound, ethylbenzene, silver compound, ion, adsorption

Abstract: 4-(2'-ethyl-phenylazo)-1-naphthylamine hydrochloride, prepared from o-nitro-ethylbenzene by reduction, diazotization, and coupling with 1-naphthylamine, is an acid-base indicator. Its performance as an adsorption indicator in the precipitation reaction of silver chloride, silver cyanide, silver iodide, silver bromide, and silver thiocyanide; both under conditions of anion- and silver-excess, were investigated. In case of silver cyanide, silver thiocyanide, and silver bromide there was only adsorption; in the other cases the adsorption was accompanied by changes in color. The applications of the phenomena observed to the titrimetric determination of silver ions were discussed. Orig. art. has 2 formulas and 5 tables.

Card 1/2

L 63937-65

ACCESSION NR: AT5022527

ASSOCIATION: Industrierwerke Nitrokemia, Fuzfogyartelep (Nitrokemia Industrial Works)

SUBMITTED: 04Feb64

ENCL: 00

SUB CODE: 00; GC

NO REF SOV: 000

OTHER: 005

JPRS

dm
Card 2/2

L 1189-66 EPF(c)/EWP(j)/EWA(c) RPL JW/RM

ACCESSION NR: AT5025191

HU/2502/64/042/004/0297/0303

AUTHOR: Legradi, Iaszlo (Fuzfogyartelep)

TITLE: Rapid simple method for the detection of minute amounts of phenylenediamine isomers in the presence of each other

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 297-303

TOPIC TAGS: isomer, analytic chemistry, amine

Abstract: [English article] The method described for the detection of phenylenediamine isomers in the presence of each other is based on the fact that the various isomers behave in a different way when reacting with formaldehyde or are subjected to oxidation. Procedures were detailed for analyzing various binary phenylenediamine mixtures with especial emphasis to mixtures where one of the components is present in very low concentration only. Oxidation was carried out with air, potassium dichromate in a neutral medium, and potassium dichromate in an acid medium, respectively. The oxidation products were identified by their absorption maxima. "Thanks are due to Miss M. Barna for her aid in carrying out the experiments." Orig. art. has 5 tables. 44, 55
Card 1/2

L 1189-66

ACCESSION NR: AT5025191

ASSOCIATION: Nitrokenia Works, Fuzfogyartelep

SUBMITTED: 04Feb64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 000

OTHER: 005

JPRS

Card 2/2

LEGRADI, Laszlo

The 4-(2'-ethyl-phenylazo)-1-naphthyl-amine-hydrochloride, a new adsorption indicator. Magyar kémiai folyóirat 70 no. 1: 27-32 Jan '64.

1. Fuzfogyartelep, Nitrokémiai Ipartelepek.

LEGRADI, Laszlo

Determination of chloride by the Volhard method using a 4-(2-ethyl-phenylazo)-1-naphthylamine-hydrochloride adsorption indicator. Magyar kémiai folyóirat 70 no. 2:61-64 F '64.

A simple quick method for the detection of phenylene and diamine isomers in small quantities and in presence of each other. Ibid.:82-87.

1. Fuzfogyartelep, Nitrokemiai Ipartelepek.

LEGRADI, Laszlo

Kinetic analysis in organic chemistry. Pt. 2. *Magy kem
folyoir* 70 no. 6:267-270 Je '64.

Determination of the extent of adsorption in precipitation
indicators operating on the acid-base principle. *Ibid.*:271-276

1. Nitrochemical Industrial Plants, Fuzfogyartelep.

LEGRADI, Laszlo

A new adsorption indicator: p-ethoxy- λ -naphthyl-red. Magyar
kem folyoir 70 no.9:404-410 S '64.

1. Nitrokemia Industrial Plants, Fuzfogyartelep.

LEGRADI, Laszlo; HUSZAR, Jozsef

Oxidation methods in organic chemistry. *Magy kem folyoir* 70
no.9:411-413 S '64.

1. Nitrokemia Industrial Plants, Fuzfogyartelep.

LEGRADI, Laszlo

Study on the effect of agents on absorption indicators operating
on the acid-base principle. Magyar Fegyver-és Puskafabrikacsoport 70 no.2:366-337 Ag
'64.

1. Nitrokemia Industrial Plants, Puskafabrikacsoport.

LEGRADY, Laszlo

Determination of elementary sulphur by means of ion-exchanging resins. Magy kem lap 20 no.3,167-168 Mr '65.

1. Nitrokemia Industrial Plants, Fuzfogyartelep.

LEGRADI, Laszlo

Determination of methanol and formaldehyde in presence of
each other. Pt.2. Magyar folyoir 71 no.1:17-18 Ja '65.

1. Nitrokemia, Fuzfogyartelep.

L 33621-66 EWP(j) RM
ACC NR: AP6025018

SOURCE CODE: HU/0005/65/071/011/0494/0498

33

AUTHOR: Legradi, Laszlo; Szabadka, Odon

ORG: [Legradi] Nitrokemia Industrial Works, Puzfogyartolep (Nitrokemia Ipartolepek);
[Szabadka] Department of Analytical Chemistry, University Chemical Industry, Veszprem
(Veszpremi Vegyipari Egyetem, Analitikai-Kemial Tanszek)

TITLE: Kinetic analysis in organic chemistry, III. Two-component systems. Determination of o-chlorophenol in the presence of p-chlorophenol

SOURCE: Magyar kemiai folyoirat, v. 71, no. 11, 19 65, 494-498

TOPIC TAGS: diazonium salt, chlorinated organic compound, phenol, chemical kinetics

ABSTRACT: A new method is suggested for the determination of o-chlorophenol in the presence of p-chlorophenol, based on the fact that o-chlorophenol gives a color reaction with a diazonium salt prepared from sulfanilic acid, when the test is carried out in an acid medium in the presence of sodium acetate, while p-chlorophenol gives this test only to a very slight extent. This method is applicable to the determination of o-chlorophenol if the latter is present in p-chlorophenol in a concentration of greater than 2%.

In three parallel determinations the error amount to approximately 1%.

Orig. art. has: 3 figures and 2 tables. [JPRS: 33,906]

SUB CODE: 07 / SUBM DATE: 05Apr65 / ORIG REF: 001 / OTH REF: 002

LS

Card 1/1

0916 0183

L 33624-66 EWP(j) RM

ACC NR: AP6025019

SOURCE CODE: HU/0005/65/071/011/0499/0502

AUTHOR: Legradi, Laszlo

ORG: Nitrokemia Industrial Works, Fuzfogyartelep (Nitrokemia Ipartelepek)

TITLE: New results in the field of adsorption indicators functioning according to the acid-base principle

SOURCE: Magyar kemiai folyoirat, v. 71, no. 11, 1965, 499-502

TOPIC TAGS: adsorption, organic solvent

ABSTRACT: For the determination of the mechanism of functioning of adsorption indicators working according to the acid-base principle the following methods are suitable: the measurement of the uptake or release of protons, and the detection of the changes of the dissociation constant of the dye adsorbate in the presence of excess eigenions. These methods may be supplemented by the measurement of initial adsorption. The favorable effect of organic solvent is pointed out and a few practical applications are indicated.

[JPRS: 33,906]

SUB CODE: 07 / SUBM DATE: 05Apr65 / ORIG REF: 010 / OTH REF: 003

LS
Card 1/1

L 20645-66 ETC(f)/EWG(m)/ENP(j)/T DS/RM

ACC NR: AF6010741

SOURCE CODE: HU/0006/66/000/003/9160/0161

AUTHOR: Legradi, Laszlo

ORG: Nitrokemia Works, Fuzfo Plant (Nitrokemiai Ipartelepek, Fuzfogyartelep)

TITLE: Methyl methacrylate¹ determination with ion exchange resin¹

SOURCE: Magyar kemikusok lapja, no. 3, 1966, 160-161

TOPIC TAGS: methyl methacrylate, ion exchange, ion exchange resin, hydrolysis, methanol, methanol determination

ABSTRACT: A method for the determination of methyl methacrylate is described. Methyl methacrylate is hydrolyzed in a sealed tube (in a brass casing of proportions shown in Fig. 1) in aqueous media with excess of alkali. Excess sodium hydroxide, together with the sodium methacrylate formed, are removed by a column which contains a cation exchanger in its sulfonic acid form and a strongly basic anion exchanger. The methanol content of the solution leaving the column is determined by oxidation with dichromate. With this method free methanol can be determined in methyl methacrylate, and methyl

Card 1/2

L 20645-66

ACC NR: AP6010741

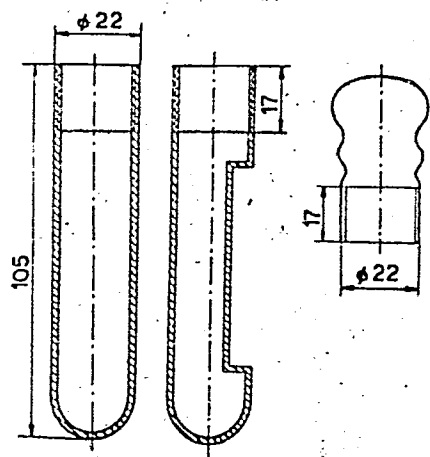


Fig. 1. Diagram of brass casing

methacrylate in the presence of acrylonitrile. Orig. art. has: 1 table and 1 figure. [KS]

SUB CODE: .07

SUBM DATE: none/ ORIG REF: 001/ OTH REF: 004/ ATD PRESS:

4224

Card 2/2

BK

L 39547-66 EWP(j)/EWG(m)/ETC(f) DS/GD/JW/RM

ACC NR: AP6008591

SOURCE CODE: HU/0005/65/071/001/0017/0018

AUTHOR: Legradi, Laszlo

ORG: Nitrokemia Industrial Works, Fuzfogyartelep (Nitrokemia Ipartelepek)

TITLE: Determination of methanol and formaldehyde in the presence of each other.
Part 2

SOURCE: Magyar kemiai folyoirat, v. 71, no. 1, 1965, 17-18

TOPIC TAGS: formaldehyde, methanol, ion exchange resin, hydrogen peroxide

ABSTRACT: To obtain reliable and reproducible results by the analytical method described in Part 1 of this series (Magyar Kemiai Folyoirat, Vol 69, 1963, p 117) it was necessary to conduct a blind determination. The reasons for the need of this blind determination were now investigated. It was found that complete removal of hydrogen peroxide from the reaction mixture, with the aid of ion-exchange resins, will effect a solution to the problem. However, problems may still be encountered owing to the decomposition products from the ion-exchange resin employed. [JPRS]

SUB CODE: 07 / SUBM DATE: 27Apr64 / ORIG REF: 001

Card 1/1 11b

1. 47525-66

ACC NR: AT6034997

SOURCE CODE: HU/2502/66/047/002/0103/0114

LEGRADI, Laszlo, Nitrokemia Industrial Works
in Fuzfogyartelep.

"p-Ethoxy- α -Naphthyl Red, a New Adsorption Indicator"

Budapest, *Acta Chimica Academiae Scientiarum Hungaricae*, Vol 47, No 2,
1966, pp 103-114.

Abstract: [German article] p-Ethoxy-naphthyl red was synthesized by diazotization of p-phenetidine, followed by coupling with α -naphthylamine hydrochloride. It was found to be a good acid, base, and adsorption indicator. Experimental studies showed that it can be used in various types of precipitation titration such as argentometric bromide, iodide, thiocyanate, and cyanide determination. The indicator is dark violet at pH 1-3, violet at 3-3.2, violet-red at 3.2-3.5, red at 3.5-3.6, orange at 3.6-3.7, chestnut brown at 3.7-4, orange-yellow at 4-4.5, and yellow at 4.5-12.0. It had higher adsorption capacity than 4-(2'-ethylphenylazo)-1-naphthylamine hydrochloride. Orig. art. has: 7 tables. [JPRS: 36,002]

TOPIC TAGS: chemical indicator, organic azo compound, adsorption, chemical precipitation

SUB CODE: 07 / SUBM DATE: 24Jul64 / ORIG REF: 005 / OTH REF: 001

Card 1/1

0921 1570

L 47524-66 EWP(j) JN/RM
ACC NR: AT6034998

SOURCE CODE: HU/2502/56/047/002/0115/0120

AUTHOR: Legrady, Laszlo, and Huszar, Jozsef --Gusar, Y. of Nitrokemia Industrial Works in Fuzfogyartelep

"Oxidation Methods in Organic Analysis. Part 1: Determination of Phenylhydrazine in the Presence of Aniline"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 2, 1966, pp 115-120.

Abstract: [English article] The method is based on the fact that phenylhydrazine is quantitatively oxidized by KBr in HCl solution to a diazonium salt, and that this reaction is not affected by the presence of aniline in the system. The end-point of the reaction is indicated by the discoloration of a starch-iodine solution through the formation of excess potassium bromide. The method described has an accuracy of $\pm 0.3\%$. The determination is adversely affected in the presence of hydrazine, hydroxylamine, or other reducing agents. Orig. art. has: 1 figure, 6 formulas and 2 tables.

[JPRES: 36,002]

TOPIC TAGS: phenyl compound, hydrazine derivative, iodine, aniline, quantitative analysis

SUB CODE: 07 / SUBM DATE: 24 Jul 64 / ORIG REF: 001 / OTH REF: 007

Card 1/1

LEGRADY, MARTON

Asvanyolatermekék kenmentesítése; irodalmi összefoglalás.

Veszprem, Hungary, Magyar Asvanyolaj és Foldgaz Kiserleti Intezet,
1953, 51 p.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959.
Uncl.

LEGRAN, A. LEVINA, S.

Surface Phenomena Department, Moscow Physico-Chemical Institute imeni.
L. Ya. Karpov, (-1939-).

"The Overvoltage of Hydrogen on Nickel in Acid Solutions."

Zhur. Fiz. Khim., Vol. 14, No. 2, 1940

LEGRAN, A.E.

AGLADZE, R.I.: LEGRAN, A.E.

Electrode potential of manganese in aqueous solutions [in Georgian
with summary in Russian]. Trudy Inst. met. i gor. dela AN Gruz SSR
2:75-87 '49. (MIRA 11:1)

(Manganese) (Electrochemistry)

4

C A

Electrode potential of manganese in aqueous solutions.
R. I. Agladze and A. E. Legran (Metal Mining Inst., Tiflis).
Zhur. Fiz. Khim. 24, 1122-7(1950).—The potential of electrolytic (99.9%) Mn was measured at 24-25° in solns. of MnSO_4 (I), $(\text{NH}_4)_2\text{SO}_4$ (II), K_2SO_4 (III), H_2SO_4 (IV), $\text{MnSO}_4 + \text{H}_2\text{SO}_4$ (V), and $\text{MnSO}_4 + (\text{NH}_4)_2\text{SO}_4$ (VI). I, II, and III were 0.01, 0.1, or 1.0 N; IV was 0.01, 0.1, or 0.5 N. In III, the potential did not depend on K_2SO_4 concn. In I, IV, and V, it became more neg. with increasing diln. It changed with time when the electrode was kept in the soln; this was due to the formation of oxides on the electrode surface in slightly oxidizing and neutral solns. In 0.5 N solns. of H_2SO_4 , which were 0.01, 0.1, and 1.0 N in MnSO_4 , as well as in 0.1 N solns. of H_2SO_4 , which were 0.01 and 0.1 N in MnSO_4 , the potential depended solely on the H-ion concn. In the other cases investigated it depended both on the H ion and Mn^{++} -ion concn. In II, the potential became less neg. with increasing diln., possibly because of the formation of the $[\text{Mn}(\text{NH}_4)_2]^{++}$ complex ion. The same explanation was advanced for the shift towards more neg. potentials when $(\text{NH}_4)_2\text{SO}_4$ was added to MnSO_4 solns. M. B.

LEGRAN, A.E.

SOV/137-58-8-17408

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 173 (USSR)

AUTHORS: Legran, A.E., Stazhadze, T.G., Pachuashvili, Ye.M.

TITLE: Protection of Steel With Various Coatings Against Corrosion
in Borzhomi Mineral Water (Zashchita stali ot korrozii raz-
lichnymi pokrytiyami v borzhomskoy mineral'noy vode) in Georgian

PERIODICAL: Tr. Gruz. politekhn. in-t, 1957, Nr 6 (54), pp 137-144

ABSTRACT: The permanence of Zn, Cr, and Ni coatings was studied.
The dense and thick (40 μ) layer of electrolytic Cr possesses
the best permanence.

P.N.

1. Steel--Coatings 2. Corrosion inhibitors--
Performance 3. Mineral water--Corrosive effects

Card 1/1

ASURAN, A.V.

Commission and anti-subversive program of retail in "little
thermal waters. Study 61" (Cuba) and 62-60 '62.

(MIRA 17.10)

LEGRAND, I., ing.

New mining equipment, and the concern for improving the product quality. Rev min 12 no.5:201-204 My '61.

LEGRAND, J.

Problem of corneal prosthesis. Acta med. iugosl. 10 no.2:
179-186 1956.

1. Clinique ophtalmologique, Faculte de Medecine de Nantes.

(CORNEA, surg.

implantation of acrylic lenses, technic & tolerance (Fr))

(ACRYLIC RESINS

corneal acrylic lenses, technic & tolerance (Fr))

(LENSES,

same)

MAYSURADZE, Z.N.; GABUNIYA, D.S.; LEGRAN, N.E.; MAKADZE, M.M.;
MAKHATADZE, N.K.; SARKISOVA, Ye.G.;
TSIBADZE, D.S.

Microvascular system of the cerebral cortex in dogs. Soob.
AN Gruz. SSR 26 no.4:469-476 Ap '61. (MIRA 14:8)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut.
Predstavleno akademikom A.D. Zurabashvili.
(CEREBRAL CORTEX--BLOOD VESSELS)

LEGRAND, S.V.

Effect of energy timing on plastic behavior of materials during
dynamic upsetting. Trudy Inst.met. no.9:132-138 '62.

(MIRA 16:5)

(Forging)

LEGRAND, S. V.

Legrand, S. V., "Fractional Deformation in the Processing of Heat Resistant Alloys."

in book Research on Heat Resistant Alloys, pub by Acad. Sci. USSR, Moscow. 1956, 160 pp.

Inst. Metallurgy im A. A. Baykov

LEGRAND, S.V.

PHASE I BOOK EXPLOITATION 80V/5559

Академия наук СССР. Институт металлургии. Научный совет по проблемам термо-
прочности сплавов

Исследования по термопрочности сплавов. т. 5 (Investigations of Heat-Resistant
Alloys, Vol. 5) Москва, Изд-во АН СССР, 1955. 425 p. Strata slip inserted.
2,000 copies printed.

Ed. of Publishing House: V.A. Krasov; Tech. Ed.: I.P. Kur'man; Editorial
Board: I.P. Barin, Academician, G.V. Kur'man, Academician, N.V. Apyov,
Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Odin,
I.M. Pavlov, and I.P. Zelin, Candidate of Technical Sciences.

NOTES: This book is intended for metallurgical engineers, research workers
in metallurgy, and may also be of interest to students of advanced courses
in metallurgy.

CONTENTS: This book, consisting of a number of papers, deals with the proper-
ties of heat-resisting metals and alloys. Each of the papers is devoted to
the study of one feature which determines the properties of heat-resisting
metals and alloys, such as Cr, Ni, and V on the heat-resisting
properties of various alloys are studied. Deformation and variability
of certain metals as related to the thermal conditions are the object of
one study described. The problems of hydrogen embrittlement, diffusion
and the deposition of ceramic coatings on metal surfaces by means of
electrochemical means are examined. One paper describes the apparatus and methods
used for growing monocrystals of metals. Bore-base metals are critically
examined and evaluated. Results are given of studies of intermetallic bonds
and the behavior of atoms in metal. Tests of turbine and compressor blades are
described. No personalities are mentioned. References accompany most
of the articles.

Рябенко, А.П., В.М. Мартынов, and М.В. Куликов. Production of Forgings
for Turbine and Compressor Blades

Рябенко, А.П., and В.М. Мартынов. Developing Apparatus and Methods
for Obtaining Monocrystals of Metals

Мартынов, В.М. Forming and Its Effect on the Properties of Certain Nickel
Alloys

Рябенко, А.П., В.М. Мартынов, and М.В. Куликов. Adsorptional Decrease in
Strength of Metal Monocrystals and Spontaneous Dispersion in a Liquid
Medium. Diffusion Coatings on Polybenzene

Куликов, М.В., Л.И. Чудович, and Г.В. Завидова. Application of Ceramic
Coatings by the Electroplasma Method

Куликов, М.В., В.М. Мартынов, and А.А. Вершин. Heat Resistance of
Chromium-Nickel Alloys

Кливин, Г.В., and А.В. Степанов. Temperature Dependence of Plasticity and
Strength of Metals and Alloys

Куликов, М.В., А.А. Вершин, and Г.В. Завидова. Study of Thermodynamic
Characteristics of Intermetallic Bonds and of the Mobility of Atoms in Alloys

Куликов, М.В. Study of Thermal Characteristics of Alloys

Куликов, М.В., and Г.В. Завидова. On Methods of Testing Blade Material
for Erosion and Corrosion Resistance Under Simulated Operating Conditions

Куликов, М.В., and Г.В. Завидова. Dilatometric Study of Relaxation of
Plastically Deformed Alloys

Легра́нд, С.В. Method of Extrusion by Torsion With the Use of Back Pressure

Легра́нд, С.В. Basic Problems in Mechanical Properties of Heat-Resistant Alloys

АВТОРАТ: Library of Congress

Card 9/9

PL/10
5-18-60
27

22747

S/509/60/000/007/008/014
E193/E483

1.1400 *do* 1454, 1496

AUTHOR: Legrand, S.V.

TITLE: Distribution of Plastic Deformation Between Different
Layers of Forged Material

PERIODICAL: Akademiya nauk SSSR. Institut metallurgii. Trudy, No.7.
Moscow, 1960. pp.78-82. Metallurgiya metallovedeniye,
fiziko-khimicheskiy metody issledovaniya

TEXT: To prevent premature cracking of brittle materials during hot-forging, the blanks are often encased in sheaths of a more plastic metal or alloy, whereby the degree of localization of tensile stresses in the blank is reduced, better uniformity of deformation is ensured and too rapid cooling of the forged material and the resultant loss of plasticity are prevented. The final outcome of a hot-forging operation, carried out by this technique, depends to some extent on the relative deformation of the blank and the sheath, and the object of the present investigation was experimentally to study the relationship between the geometry of the blank-sheath system and the distribution of the deformation between these two components. The experimental
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E193/E483

Distribution of Plastic ...

specimens consisted of cylindrical cores (35 mm in diameter) of a heat-resistant alloy N, encased in steel Cт.3 (St.3) sheaths whose wall-thickness varied between 1 and 10 mm. The plasticity of the core and the sheath was widely different, their room temperature hardness being 390 and 145 BHN, respectively. Split sheaths were used to facilitate assembling the composite specimens; these were carefully fitted onto the cores and joined by welding. The experiments consisted in forging the composite blanks between unlubricated, V-shaped swaging dies in a 100 t forging press of the eccentric type. The blanks were pre-heated to 1180°C, and the reduction of the original round core 35 mm in diameter to an oval section (39.98 mm wide, 29.45 mm thick) was attained in 8 swaging operations, constant draft ($\Delta h/h_0$) of 0.21 being employed in each operation. The change of the shape and dimensions of both the core and the sheath was determined after each operation by making cuts (normal to the surface of the sheath and extending to the surface of the core) in a manner shown in Fig.1. The initial cross-section of a composite blank and its shape after each swaging operation is shown in Fig.2. The results are tabulated and, also, shown graphically in Fig.3, where $\Delta h/\Sigma \Delta H$ and

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S/509/60/000/007/008/014

E193/E483

Distribution of Plastic ...

$\Sigma \Delta \delta / \Sigma \Delta H$ are plotted against the initial thickness of the sheath (δ , mm); Δh is the reduction in thickness of the core, $\Sigma \Delta \delta$ is the reduction in thickness of two diametrically opposed walls of the sheath and $\Sigma \Delta H$ denotes the reduction in thickness of the composite blank. The curve in Fig.2 intersects any given ordinate into two parts, the parts below and above the curve representing the relative degree of deformation of the core and the sheath, respectively. It will be seen that there is a certain minimum wall-thickness of the sheath (in this case $\delta_{\min} \approx 2$ mm) below which practically all deformation of a composite blank takes place in the core; similarly, above a certain $\delta_{\max} \approx 9$ mm, the core ceases to be deformed and all deformation takes place in the sheath. Equal degree of deformation of both components was, in the present case, attained when a sheath with $\delta \approx 6$ mm was employed. Similar results were obtained on composite blanks consisting of cylindrical specimens of steel ШX15 (ShKh15), sandwiched between two end-plates of the same alloy and compressed axially at various temperatures. There are 4 figures, 2 tables and 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc. The

Card 3/5

22747

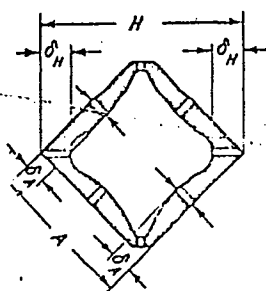
S/509/60/000/007/008/014

E193/E483

Distribution of Plastic ...

reference to the English language publication reads as follows:
Mayerhof, Chaplin. Brit. I. Appl. Phys., 1954.

Fig.1.



Card 4/5

37690

S/509/62/000/009/009/014
D207/D308

18.8200

AUTHOR: Legrand, S. V.

TITLE: Effect of energy dosage on the plastic behavior of materials subjected to dynamic shock compression

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Trudy, no. 9, Moscow, 1962. Voprosy plasticheskoy deformatsii metalla, 132-138

TEXT: Compression by dropping a hammer on a cylindrical sample was used to study the plasticity index $\Delta h/h_0$, where h_0 is the initial height of the sample. The test material was the chrome-nickel alloy ЭИ-437 (EI-437) in the form of cylinders of 12 mm diameter and 18 mm height. Compression was carried out at 900, 1100 and 1200°C. Single free hammer drops gave the lower limits of the plasticity index, while multiple small compressions gave the upper limits of the index. The difference between these two sets of plasticity index values was attributed to large amounts of heat produced under single drops; compared with small amounts of heat produced in mul-

Card 1/2

Effect of energy ...

S/509/62/000/009/009/014
D207/D308

tiple small compressions. Under single hammer drops the structure was found to change with increasing deformation: Recrystallization occurred at 1200°C for $\Delta h/h_0 = 30\%$; block fragmentation was observed at 1100°C ; at 900°C the texture layers were packed more closely after deformation. There are 5 figures.

Card 2/2

L 07418-67 EWP(e)/EWT(m) WH
ACC NR: AP6030778 (A) SOURCE CCDE: UR/0363/66/002/009/1664/1670

AUTHOR: Kaynarskiy, I. S.; Totsenko, S. B.; Legtyareva, E. V.

ORG: Ukrainian Scientific Research Institute of Refractories (Ukrainskiy nauchno-issledovatel'skiy institut ogneporov)

TITLE: Effect of heat treatment conditions on the mechanical and dielectric properties of highly refractory spinel-corundum ceramics

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1664-1670

TOPIC TAGS: corundum, ceramic, refractory, dielectric breakdown, bending strength, CORUNDUM REFRACTORY

ABSTRACT: The effect of heat treatment on the breakdown voltage E_{br} and bending strength σ_{bend} of spinel-corundum specimens of various compositions was studied on specimens containing 30 and 70 wt. % Al_2O_3 and 70 and 30 wt. % spinel respectively. After firing, the specimens with 30% Al_2O_3 consist of a single-phase system in which Al_2O_3 has completely penetrated into the solid solution with spinel, whereas specimens with 70% Al_2O_3 consist of a two-phase system in which Al_2O_3 has partially penetrated into the solid solution and is chiefly present as corundum. Quenching from 1400-1600° of the two-phase specimens increases the Al_2O_3 content in the solid solution in spinel, thus increasing σ_{bend} . Considerable decomposition of the solid solution after quenching from 1750°C and also a rapid simultaneous growth of the crystals decrease σ_{bend} . The crystal growth lowers E_{br} , while quenching raises it. Quenching apparent-

Cord 1/2

UDC: 666.76:620.17+666.76:54

L 07418-67

ACC NR: AP6030778

ly increases the microheterogeneity of the crystals of the solid solution, thus raising their microhardness. Decomposition of the solid solutions lowers the microhardness of the crystals. By decreasing the heterogeneity of the crystals, prolonged homogenizing lowers their microhardness. In single-phase specimens containing 30% Al_2O_3 , an increase in microhardness and σ_{bend} is observed with an increase in the temperature from which the quenching is performed. E_{br} of these specimens substantially depends on the crystal size, diminishing as the latter increases. Orig. art. has: 9 figures and 3 tables.

SUB CODE: 11/ SUBM DATE: 14Jan66/ ORIG REF: 013/ OTH REF: 008

Card 2/2 *pl*

11F

LEGUN, A.F.

Daily energy expenditure in children 2-3 years old.
A. E. Legun and N. N. Chechel'nitskaya. *Voprasy*
Pitan'ya 5, No. 4, 104-20 (1930).—The caloric needs per
hr. for children 2-3 years old are 32 cal. as a base, 35
while lying down, 39 while sitting, 71 while walking, 121
while running; 955-1017 as total daily requirement.
F. H. Rathmann

COMMON ELEMENTS

COMMON VARIABLE INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

11F

LEGUNAE
CR

11E

Nitrogenous and mineral exchange in the subtropics for various food rations. O. P. Molchanova, A. E. Legun, I. B. Redina, N. N. Chechel'nitzkaya and A. I. Frolova. *Voprasy Pitaniya* 5, No. 4, 127-30 (1930). Soda decreases the Cl content of the urine while NaCl decreases the Cl content of sweat. The daily Cl requirement is 13-16 g. Data are given on the daily balance of K, Mg, Ca, N and P. F. H. Rathmann

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

LEGUN, A. F., MOLCHANOVA, O. P.

Kale

"study of the assimilability and of the food value of sea kale." Reviewed by D. V. Kiseleva.
Gig. i san. No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

LEGUN, A.F.; MINKH, A.A.

Daily expenditure of energy by skiers during the basic training
period. Vop.pit.13 no.2:3-9 Mr-Apr '54. (MLRA 7:2)

1. Iz Instituta pitaniya Akademii meditsinskikh nauk SSSR i
TSentral'nogo ordena Lenina instituta fizicheskoy kul'tury
im. I.V.Stalina (Moscow).
(Skis and ski-running) (Metabolism)

Legum, A. F.

Effect of prolonged medical sleep on the nitrogenous and potassium and calcium metabolisms in patients suffering from ulcers. A. F. Legum (Nutrition Inst., Acad. Med. Sci. U.S.S.R., Moscow). *Vopr. Pitaniya* 15, No. 3, 10-22 (1956).--During a retarded state of the cerebral cortex, caused by administering the sleeping agents luminal, Na amytal, and chloral hydrate to patients suffering from gastric or duodenal ulcers, it was found that the processes of the biochem. protein decompn. were slowed down; the synthetic protein processes increased and resulted in a pos. N balance; the protein metabolism proceeded normally as shown by the relative amts. of N-substances in the urine (total N, urea, NH_3 , and amino N); K metabolism resulted in a pos. K balance of 3.1-3.3 g. (from the dietary K of 4.9 g.) during the sleeping period as compared with 0.7 g. before the sleep; Ca metabolism was not affected by the sleep treatment (the pos. balance of 0.2 g. from the total dietary Ca of 1.7 g. was usually found); an increase of excreted Ca took place only by increasing the amt. of the dietary Ca; and that a parallelism existed between the daily diuresis and the intake of water.

B. Wierbicki

LEGUN, A.F.

The effect of prolonged therapeutic sleep on nitrogen, potassium
and calcium metabolism in peptic ulcer. Vest.khir. 77 no.11:16-22
N '56. (MIRA 10:1)

1. Iz laboratorii obmena veshchestv i energii (zav. - prof. O.P.
Molchanova) Instituta pitaniya AMN SSSR, Moskva.

(PEPTIC ULCER, metab. in
calcium, potassium & sodium, eff. of sleep ther.)
(SLEEP, ther. use
peptic ulcer, eff. on calcium, potassium & sodium metab.)
(CALCIUM, metab.
in peptic ulcer, eff. of sleep ther.)
(POTASSIUM, metab.
same)
(SODIUM, metab.
same)

USSR/Human and Animal Physiology (Normal and Pathological).
Metabolism. Metabolism of Lipids. T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79263.

Author : Legun, A.F.

Inst :

Title : Metabolism in Obese Patients During Hunger.

Orig Pub: Vopr. pitaniya, 1957, 16, No 1, 28-32.

Abstract: Five men, aged 47-63, who suffered from obesity, were subjected to treatment according to N.P. Narbekov: complete starvation over the course of 12-15 days. As a drink, they were given a medicinal mineral water [borzhon]. The general N, Cl, Ca, P were determined in the urine and feces; in the urine - the N of the urea, amino acid NH_3 . Toward the end of the hunger period, the excretion of N consisted of 60-70% in pro-

Card : 1/3

USSR/Human and Animal Physiology (Normal and Pathological).
Metabolism. Metabolism of Lipids.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 792.63.

According to the method of N.P. Narbekov is accompanied by pathological shifts in the albumin metabolism, is inexpedient and harmful.

Card : 3/3

LEGUN, ZYGMUNT

Technologia szkła optycznego. Warszawa, Państwowe Wydawn. Techniczne.
(Technology of optical glass. 1st ed. illus., bibl., diagrs.,
graphs, tables,)

Vol. 1 (Basic processes of production and processing) 1955. 307 p.

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2
Feb. 1956

LEON, Z.

Polish optical industry in the 5-Year Plan.

p. 161 (Pomiary, Automatyka, Kontrola. Vol. 2, no. 5, May 1956. Warszawa, Poland)

Monthly Index of East European Accessions (PEAI) IC. Vol. 7, no. 2,
February 1958

LEGUN, Z., dr doc.

Machinability coefficients of various types of optical glass
in the working with diamond grinders. Pomiary 9 no.1:46
Ja '63.

SUKHOTSKIY, S.F., inzh.; LEGUNOV, A.Kh., inzh.

Standard designs of crushing and grading plants for processing
rock building materials. Stroil. mat. 6 no.10:11-15 0 '60.
(MIRA 13:10)

(Sand and gravel plants)

LEGUNOV, A S

AUTHOR: Korsunskiy, I. Professor, Doctor Phys.Math.Sci., Lagunov³¹⁵, A.S.,
Candidate of Technical Sciences, Baivel', L.P., Candidate of
Technical Sciences and Sinel'nikov A.N., Candidate of Technical
Sciences.

TITLE: Pick-up for recording changes in the gaps in a steam turbine.
(Datchik dlya registratsii izmeneniya zazorov v parovoy
turbine.)

PERIODICAL: "Energomashinostroenie" (Power Machinery Construction),
1957, No. 5, p. 26, (U.S.S.R.)

ABSTRACT: The pick-up is designed to record changes in the gaps
between the rotor and stator of a steam turbine over the range
of 2 - 5 mm with an accuracy of 0.1 mm. It can be used in
an atmosphere of steam at temperatures of up to 500 °C and
pressures up to 100 atmospheres. It is based on the principle
of an induction pick-up, change in magnetic resistance with
change in distance between the core and the surface closing
the magnetic circuit. The device is described and illustrated.
It consists of primary and secondary windings wound on a core
of transformer steel and surrounded by a suitable steel frame
40 mm in diameter. The electrical circuit in which the equip-
ment is used consists of a stabilised voltage supply, a trans-
former and two identical pick-ups (one the operating pick-up
and the other compensating) with the primaries connected in
series and the secondaries connected back-to-back. The current

Pick-up for recording changes in the gaps in a steam ³¹⁵turbine.
(Cont.)

flowing through the secondaries is rectified by a germanium diode and measured on a millivoltmeter.

2 figures, no literature references.

PROTSENKO, A.Ye.; LEGUNKOVA, R.M.

Electron microscopy of wheat streak mosaic virus. Vop. virus. 10
no.1:23-26 Ja-F '65. (MIRA 18:5)

1. Institut mikrobiologii AN SSSR, Moskva.

PROTSENKO, A.Ye.; LEGUNKOVA, R.M.; RYZHKOV, V.L., otv.red.; PASHKOVSKIY,
Yu.A., red.izd-va; BRUZGUL', V.V., tekhn.red.

[Photomicrography of phytopathogenic viruses with an electron
microscope] Elektronnaia mikrofotografiia fitopatogennykh virusov.
Moskva, Izd-vo Akad.nauk SSSR, 1960. 94 p. (MIRA 13:11)

1. Chlen-korrespondent AN SSSR (for Ryzhkov).
(PHOTOMICROGRAPHY) (ELECTRON MICROSCOPY)
(VIRUSES)

PROTSENKO, A.Ye.; LEGUNKOVA, R.M.

Electron microscope examination of onion mosaic viruses. Mikro-
biologiya 30 no.1:165-167 Ja-F '61. (MIRA 14:5)

1. Institut mikrobiologiya AN SSSR.
(MOSAIC DISEASE) (ONION DISEASES AND PESTS)
(ELECTRON MICROSCOPY)

PROTSENKO, A.Ye.; LEGUNKOVA, R.M.; GOL'DIN, M.I., doktor biol. nauk,
otv. red.; PASHKOVSKIY Yu.A., red.izd-va; SUSIKOVA, L.A.,
tekhn. red.

[Technique of electron microscopic investigations in phyto-
pathology] Tekhnika elektronnomikroskopicheskikh issledovani
v fitopatologii. Moskva, Izd-vo Akad. nauk SSSR, 1962. 46 p.
(MIRA 15:10)

(Plant diseases—Research) (Electron microscopy)

1. LEONUSTAYEV, A.: ALYONIN, M.
2. USSR (600)
4. Irrigation Canals and Flumes
7. Paving irrigation canals with cobblestones. Khlepkovstvo no. 11. 1952
9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

KONOPLINA, O.R.; LEGUTIN, P.K.

Presence of Jivet sediments in the southern margin of the Donets
Basin. Geol.zhur.22 no.1:98-100 '62. (MIRA 15:2)

1. Institut geologicheskikh nauk AN USSR.
(Donets Basin--Geology, Stratigraphic)

COUNTRY	:USSR	K
CATEGORY	:Forestry. Forest Management.	
REF. NUM.	: Ezhbiol., No. 23 1958, No. 104536	
AUTHOR	: Bogutov, D. P.	
INSTR.	:---	
TITLE	: Growth Progress of Carpathian Spruce Forests	
ORIG. PUB.	: Izv. Kh-vos. 1958, No. 5, 19-21	
ABSTRACT	: No abstract.	

Card: 1/1

LEKZDIN, Ya., kapitan dal'nego plavaniya.

Compensating for the variable part of a semi-circular deviation.
 Mor. i rech.flot 14 no.11:9-11 N '54. (MLRA 7:11)
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VIKSNE, A.; VIKSNE, J.; DENISOVA, U. [translator]; KASPARSONA, G.
[translator]; LEGZDINA, Zh. [Legzdina, Z.] [translator];
POISHA, Ya. [Poisa, J.] [tranalator]; TOLSTOPYATOVA, R.
[translator]; ALKSNE, B., red.; BERZINA, K., red.; SILINS, V.,
tekh. red.

[Riga Zoological Garden] Rihzhskii zoologicheskii sad. Riga,
Latvijas Valsts izdevnieciba, 1957. 1 v. (chiefly illus).

(MIRA 14:12)

(Riga--Zoological gardens)